

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/39692

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : HO4Q 7/20 US CL : 455/456.6 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 455/456.1-456.6, 414.1, 404.1-404.2 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 2003/0008669 A1 (STEIN et al) 09 January 2003 (09.01.2003), whole document	1-3, 5-6, 9-10, 14, 16-17, 19-28, 31-32, 35-36, 39, 41-43, 45, 48-49, 52, 54-64 4, 7-8, 11, 13, 15, 18, 29-30, 33-34, 40, 44, 46-47, 50, 53
X	US 2002/0115448 A1 (AMERGA et al) 22 August 2002 (22.08.2002) whole document	1-3, 5-6, 12, 16-17, 19-23, 27-28, 32, 35, 38, 41-43, 45, 48, 51
Y	US 6,166,685 A (SOLIMAN) 26 December 2000 (26.12.2000), column 3, lines 27-40, column 1, lines 8-15	11, 13, 37, 30,
Y	US 6,198,935 B1 (SAHA et al) 03 March 2001 (06.03.2001), column 4, lines 2-7	18, 40, 53
Y	US 6,330,454 B1 (VERDONK) 11 December 2001 (11.12.2001), abstract	7, 33, 46
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
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"P"	document published prior to the international filing date but later than the priority date claimed	
Date of the actual completion of the international search 18 May 2005 (18.05.2005)		Date of mailing of the international search report 13 JUL 2005
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Authorized officer Olivia Marsh Telephone No. 703-305-4700

INTERNATIONAL SEARCH REPORTInternational application No.
PCT/US04/39692**C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2003/0050077 A1 (TAKEUCHI et al) 13 March 2003 (13.03.2003), paragraph 20, 25, 27	4, 29-30, 44,
Y	US 5,734,977 A (SANMUGAM) 31 March 1998 (31.03.1998), column 3, lines 66-67, column 4, lines 1-5	15